

WHAT IS CLAIMED IS:

1. A printer apparatus comprising:  
detection means for detecting an interface-disconnection state; and  
control means for performing control processing in which, when said detection means detects the interface-disconnection state during a printing process, the printing is terminated and paper is discharged.
2. A printer apparatus according to Claim 1, wherein said printer apparatus is linked to a plurality of host units via a plurality of interfaces, and when said control means detects the interface-disconnection state while print data from one of the host units is being printed, said control means performs control processing in which the printing is terminated, the paper is discharged, and print data is received from another one of the interfaces and is printed.
3. A printer apparatus according to Claim 1, wherein, when said control means detects disconnection of an interface being used during the printing process, said control means performs control processing in which the printing is immediately terminated and the printed paper is

discharged.

4. A printer apparatus according to Claim 1, further comprising a receiving buffer for storing print data received from a host unit to which said printer apparatus is linked, wherein, when said detection means detects the interface-disconnection state caused by an interface being used during the printing process, said control means performs control processing in which, after printing all print data remaining in said receiving buffer, the printing is terminated and the printed paper is discharged.

5. A printer apparatus according to Claim 1, wherein said control means determines, in accordance with the type of paper used for printing, whether or not control processing is performed in response to the detection of the interface-disconnection state by said detection means.

6. A printer apparatus according to Claim 1, wherein said control means determines, in accordance with a specified control command received from a host unit to which said printer apparatus is linked, whether or not control processing is performed in response to the detection of the interface-disconnection state by said detection means.

7. A printer apparatus according to Claim 1, wherein said control means determines, in accordance with a specified input from an operation unit provided in said printer apparatus, whether or not control processing is performed in response to the detection of the interface-disconnection state by said detection means.

8. A printer apparatus according to Claim 1, wherein: a Centronics interface is used; and when no control command from a host unit to which said printer apparatus is linked is received via said Centronics interface during a predetermined period during the printing process, said detection means regards the situation as a state in which said Centronics interface is disconnected.

9. A printer apparatus according to Claim 1, wherein: a Universal Serial Bus interface is used; and when said Universal Serial Bus interface is suspended during the printing process, said detection means regards the situation as a state in which said Universal Serial Bus interface is disconnected.

10. A printer apparatus according to Claim 1, wherein: a packet-communication interface is used; and when packets to be received for a predetermined period

are not received during said predetermined period during the printing process, said detection means regards the situation as a state in which said packet-communication interface is disconnected.

11. A method for controlling a printer apparatus, comprising:

a detection step for detecting an interface-disconnection state during a printing process; and

a control step for performing control processing in which, when said detection step detects the interface-disconnection state during the printing process, the printing is terminated and paper is discharged.

12. A method according to Claim 11, wherein said printer apparatus is linked to a plurality of host units via a plurality of interfaces, and when said control step detects the interface-disconnection state while print data from one of the host units is being printed, said control step performs control processing in which the printing is terminated, the paper is discharged, and print data is received from another one of the interfaces and is printed.

13. A method according to Claim 11, wherein, when said control step detects disconnection of an interface being

used during the printing process, said control step performs control processing in which the printing is immediately terminated and the printed paper is discharged.

14. A method according to Claim 11, further comprising a receiving buffer for storing print data received from a host unit to which said printer apparatus is linked, wherein, when said detection step detects the interface-disconnection state caused by an interface being used during the printing process, said control step performs control processing in which, after printing all print data remaining in said receiving buffer, the printing is terminated and the printed paper is discharged.

15. A method according to Claim 11, wherein said control step determines, in accordance with the type of paper used for printing, whether or not control processing is performed in response to the detection of the interface-disconnection state by said detection step.

16. A method according to Claim 11, wherein said control step determines, in accordance with a specified control command received from a host unit to which said printer apparatus is linked, whether or not control processing is performed in response to the detection of the

interface-disconnection state by said detection step.

17. A method according to Claim 11, wherein said control step determines, in accordance with a specified input from an operation unit provided in said printer apparatus, whether or not control processing is performed in response to the detection of the interface-disconnection state by said detection step.

18. A method according to Claim 11, wherein:  
a Centronics interface is used; and  
when no control command from a host unit to which said printer apparatus is linked is received via said Centronics interface during a predetermined period during the printing process, said detection step regards the situation as a state in which said Centronics interface is disconnected.

19. A method according to Claim 11, wherein:  
a Universal Serial Bus interface is used; and  
when said Universal Serial Bus interface is suspended during the printing process, said detection step regards the situation as a state in which said Universal Serial Bus interface is disconnected.

20. A method according to Claim 11, wherein:

a packet-communication interface is used; and when packets to be received for a predetermined period are not received during said predetermined period during the printing process, said detection step regards the situation as a state in which said packet-communication interface is disconnected.

21. A control program readable by a computer provided in a printer apparatus, said control program comprising:

a detection step for detecting an interface-disconnection state during a printing process; and

a control step for performing control processing in which, when said detection step detects the interface-disconnection state during the printing process, the printing is terminated and paper is discharged.

22. A control program according to Claim 21, wherein said printer apparatus is linked to a plurality of host units via a plurality of interfaces, and when said control step detects the interface-disconnection state while print data from one of the host units is being printed, said control step performs control processing in which the printing is terminated, the paper is discharged, and print data is received from another one of the interfaces and is printed.

23. A control program according to Claim 21, wherein, when said control step detects disconnection of an interface being used during the printing process, said control step performs control processing in which the printing is immediately terminated and the printed paper is discharged.

24. A control program according to Claim 21, further comprising a receiving buffer for storing print data received from a host unit to which said printer apparatus is linked, wherein, when said detection step detects the interface-disconnection state caused by an interface being used during the printing process, said control step performs control processing in which, after printing all print data remaining in said receiving buffer, the printing is terminated and the printed paper is discharged.

25. A control program according to Claim 21, wherein said control step determines, in accordance with the type of paper used for printing, whether or not control processing is performed in response to the detection of the interface-disconnection state by said detection step.

26. A control program according to Claim 21, wherein said control step determines, in accordance with a specified

control command received from a host unit to which said printer apparatus is linked, whether or not control processing is performed in response to the detection of the interface-disconnection state by said detection step.

27. A control program according to Claim 21, wherein said control step determines, in accordance with a specified input from an operation unit provided in said printer apparatus, whether or not control processing is performed in response to the detection of the interface-disconnection state by said detection step.

28. A control program according to Claim 21, wherein: a Centronics interface is used; and when no control command from a host unit to which said printer apparatus is linked is received via said Centronics interface during a predetermined period during the printing process, said detection step regards the situation as a state in which said Centronics interface is disconnected.

29. A control program according to Claim 21, wherein: a Universal Serial Bus interface is used; and when said Universal Serial Bus interface is suspended during the printing process, said detection step regards the situation as a state in which said Universal Serial Bus

interface is disconnected.

30. A control program according to Claim 21, wherein:  
a packet-communication interface is used; and  
when packets to be received for a predetermined period  
are not received during said predetermined period during the  
printing process, said detection step regards the situation  
as a state in which said packet-communication interface is  
disconnected.

31. A storage medium containing a control program  
readable by a computer provided in a printer apparatus, said  
control program comprising:

a detection step for detecting an interface-  
disconnection state; and  
a control step for performing control processing in  
which, when said detection step detects the interface-  
disconnection state during a printing process, the printing  
is terminated and paper is discharged.

32. A printer apparatus comprising:  
a plurality of interfaces by which said printer  
apparatus is linked to a plurality of host units and which  
are selectively used so that print data is received from one  
of the host units and is printed on cut-sheet paper by a

single printing mechanism;

detection means for detecting an error state in the selected interface; and

control means for performing control processing in which, when said detection means detects the error state in the selected interface during the printing process, the printing is terminated and the printed paper is discharged.

33. A printer apparatus according to Claim 32, wherein:

the selected interface is a wireless interface, and notifies said printer apparatus of an error state when said error state occurs; and

said detection means detects said error state in response to the error-state notification.

34. A method for controlling a printer apparatus including a plurality of interfaces by which said printer apparatus is linked to a plurality of host units and which are selectively used so that print data is received from one of the host units and is printed on cut-sheet paper by a single printing mechanism, said method comprising:

a detection step for detecting an error state of the selected interface during a printing process; and

a control step for performing control processing in

which, when said detection step detects the interface-error state during the printing process, the printing is terminated and paper is discharged.

35. A method according to Claim 34, wherein:  
the selected interface is a wireless interface, and  
notifies said printer apparatus of an error state when said error state occurs; and  
said detection step detects said error state in response to the error-state notification.

36. A computer-readable storage medium containing a program for controlling a printer apparatus including a plurality of interfaces by which said printer apparatus is linked to a plurality of host units and which are selectively used so that print data is received from one of the host units and is printed on cut-sheet paper by a single printing mechanism, said program comprising:

a detection step for detecting an error state of the selected interface during a printing process; and  
a control step for performing control processing in which, when said detection step detects the interface-error state during the printing process, the printing is terminated and paper is discharged.

37. A computer-readable storage medium according to  
Claim 36, wherein:

the selected interface is a wireless interface, and  
notifies said printer apparatus of an error state when said  
error state occurs; and

said detection step detects said error state in  
response to the error-state notification.

38. A control program readable by a computer provided  
in a printer apparatus including a plurality of interfaces  
by which said printer apparatus is linked to a plurality of  
host units and which are selectively used so that print data  
is received from one of the host units and is printed on  
cut-sheet paper by a single printing mechanism, said control  
program comprising:

a detection step for detecting an error state of the  
selected interface during a printing process; and

a control step for performing control processing in  
which, when said detection step detects the interface-error  
state during the printing process, the printing is  
terminated and paper is discharged.

39. A control program according to Claim 38, wherein:  
the selected interface is a wireless interface, and  
notifies said printer apparatus of an error state when said

error state occurs; and

    said detection step detects said error state in  
    response to the error-state notification.